

REP-REP-RAE7031-3131031 Replacing front left or right spring strut shock absorber

VIN: XXXXXXX Vehicle: X'/E70/OFF-ROAD VEHICLE/X5
4.8i/N62/AUTO/USA/LL/2007/08

System Version: 3.47.10.13054 Data Version: R3.47.10.13054

31 31 031 Replacing front left or right spring strut shock absorber



Special tools required:

- [31 3 340](#)
- [31 3 341](#)
- [31 3 351](#)
- [31 3 353](#)



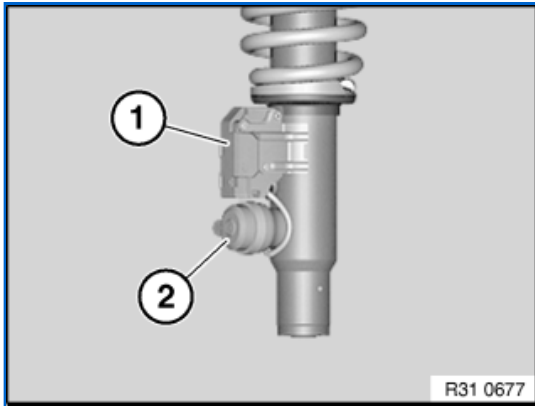
Important!

- When replacing shock absorber/spring strut, renew auxiliary damper!



Note:

Support bearing flange can only be mounted on spring strut dome in one position.



Version with Vertical Dynamics Management:

Important!

Handle the spring strut with care so as to avoid damaging the control unit (1) and control valve (2).



Warning!

Before using the special tool [31 3 340](#) take care to read through the Owner's Handbook!

All the safety information and instructions contained in the Owner's Handbook must be strictly observed!

Failure to observe these safety precautions and instructions increases the risk of serious physical injury,

damage to your health and damage to property and equipment!



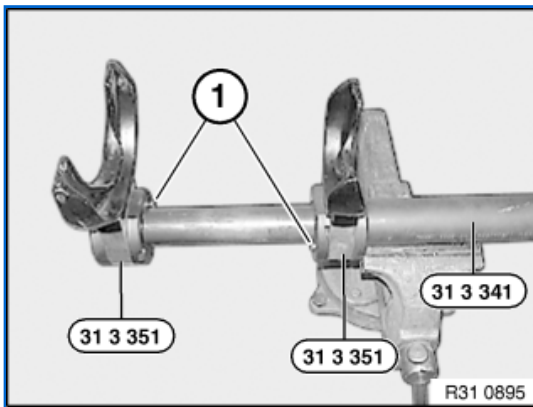
Important!

1. Prior to each use, check the special tools for defects, modifications and operational reliability.
2. Damaged/modified special tools must not be used!
3. No changes or modifications may be made to the special tools!
4. These special tools are intended solely for the purpose of tightening and relieving cylindrical and tapered suspension springs.
5. Keep special tools dry, clean and (down to the spindle) free from grease.
6. Impact screwdrivers are prohibited!
Risk of damage inside the shock absorber!
7. Do not compress coil spring to full extent.



Necessary preliminary tasks:

- Remove [front spring strut](#).



Important!

E70 Security only:

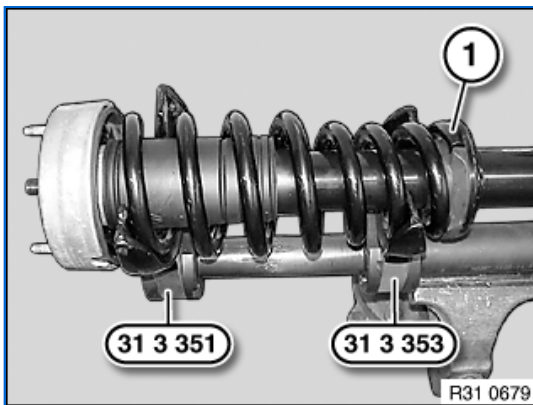
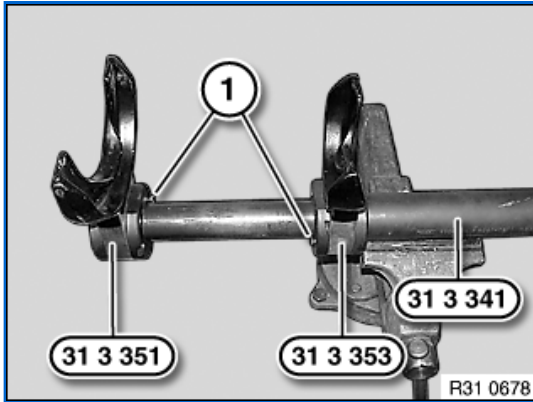
Special tool [31 3 341](#) must be used in conjunction with special tool [31 3 351](#)

Removing:

Clamp special tool [31 3 341](#) in vice.

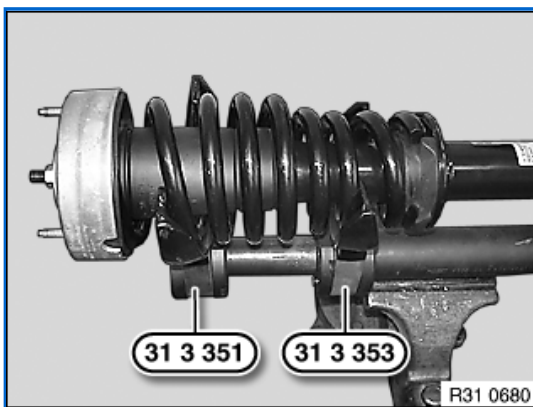
Fit special tool [31 3 351](#) and [31 3 353](#) from above on special tool [31 3 341](#) until retaining bolt (1) can be felt and heard to snap into place.

Check seating of special tools [31 3 351](#) and [31 3 353](#), correct if necessary.



Clean coil spring to remove all coarse dirt and mount on special tools [31 3 351](#) and [31 3 353](#).

Turn spring strut until end of coil spring (1) points upwards.



Warning!

Coils of coil spring must be located completely in recesses of special tools [31 3 351](#) and [31 3 353](#)!

Compress coil spring until stress on piston rod is relieved.

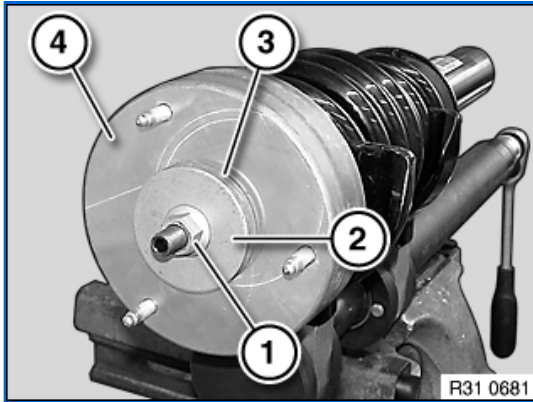
Slacken nut (1).

Remove joint seat (2), support bearing upper section (3) and support bearing flange (4).

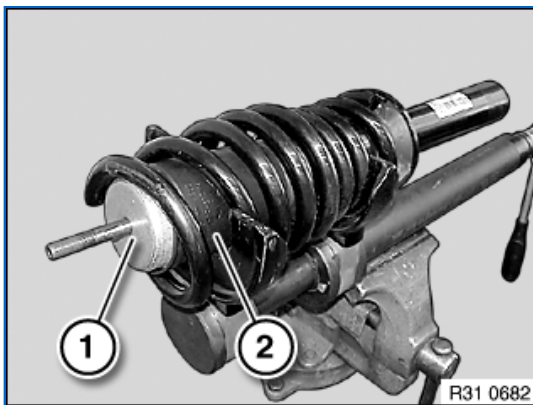


Impact screwdrivers are prohibited!

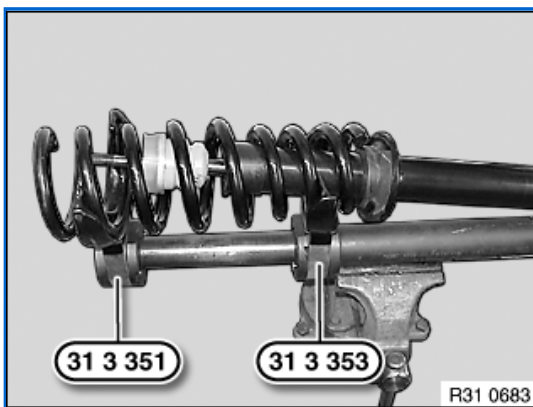
Risk of damage



inside the
shock
absorber!



Remove support cup (1) and protective tube (2).



Relieve tension on coil spring.

Remove coil spring with shock absorber from special tools [31 3 351](#) and [31 3 353](#).

Remove shock absorber from coil spring.

If necessary, remove auxiliary damper (1) and spring pad (2) from shock absorber.

Assembly:

Check auxiliary damper (1) and spring pad (2) for damage, replace if necessary.

Note:

Make sure spring pad (2) is correctly seated in spring cup.